

P19978.P01

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

P19978

Total Pages

Inventor(s) or Application Identifier

Laurent BONAVENTURE and Jean Louis DE MARCHI

Title: ROLLER SKATE

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

APPLICATION ELEMENTS

ACCOMPANYING APPLICATION PARTS

1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification [Total Pages 24]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 USC 113) [Total Sheets 4]
4. ☒ Oath or Declaration [Total Pages 3]
 - a. ☐ Newly executed (original or copy) ☐ Unexecuted
 - b. ☒ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
[Note Box 5 below]
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR 1.63(d)(2)
and 1.33(b).
5. ☒ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy
of the oath or declaration is supplied under Box 4b, is considered
as being part of the disclosure of the accompanying application
and is hereby incorporated by reference therein.
6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☒ Information Disclosure ☐ Copies of IDS Citations
Statement (IDS)/PTO-1449
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
14. ☐ Small Entity ☐ Statement filed in prior application,
Statement(s) Status still proper and desired
15. ☒ The prior application is assigned of record to SALOMON S.A.
16. ☒ Foreign priority claimed
 - a. ☒ Claim of Priority
 - b. ☐ Certified Copy of Priority Document(s)
17. ☒ Other: English Language translation of Priority Application

Presentation of Claims Corresponding to Patent Claims.

The PTO did not receive the following
listed item(s) Assignment Document

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior Application No. 08/759,416, filed December 5, 1996.
19. ☐ Amend the specification by inserting before the first line the sentence:This application is a continuation-in-part, continuation, division, of Application No. / , filed .Address all future correspondence to **Customer No. 7055** at the present address of:

GREENBLUM & BERNSTEIN, P.L.C.
1941 Roland Clarke Place
Reston, VA 20191
(703) 716-1191

September 15, 2000
Date

James L. Rowland
Signature

James L. Rowland, Reg. No. 32,674
Typed or Printed Name

FEE TRANSMITTAL

Complete if Known

FEE TRANSMITTAL		Application Number	Not Yet Assigned
		Filing Date	Concurrently Herewith
		First Named Inventor	L. BONAVENTURE et al.
		Group Art Unit	Unknown
		Examiner Name	Unknown
TOTAL AMOUNT OF PAYMENT	(\$1,278.00	Attorney Docket Number	P19978

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 19-0089

Deposit Account Name GREENBLUM & BERNSTEIN, P.L.C.

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17, including any required extension of time fees in any concurrent or future reply requiring a petition for extension of time for its timely submission (37 CFR 1.136(a)(3))
- ☐ Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b)

2. ☒ Payment Enclosed:

☒ Check ☐ Money Order ☐ Other

FEE CALCULATION (fees effective 12/29/99)

1. FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	690	201	345	Utility filing fee	690.00
106	310	206	155	Design filing fee	
107	480	207	240	Plant filing fee	
108	690	208	345	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$)690.00

2. CLAIMS

Total Claims	Extra	Fee from below	Fee Paid
31	-20=	11 x 18.00	198.00
Independent	8 -3=	5 x 78.00	390.00
Claims			
Multiple Dependent Claims		x	0.00

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	78	202	39	Independent claims in excess of 3
104	260	204	130	Multiple dependent claim
109	78	209	39	Reissue independent claims over original patent
110	18	210	9	Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)588.00

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	900*	112	900*	Requesting publication of SIR	
				Prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for response within 1st month	
116	380	216	190	Extension for response within 2nd month	
117	870	217	435	Extension for response within 3rd month	
118	1,360	218	680	Extension for response within 4th month	
128	1,850	228	925	Extension for response within 5th month	
119	300	219	150	Notice of Appeal	
120	300	220	150	Filing a brief in support of an appeal	
121	260	221	130	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive unavoidably abandoned application	
141	1,210	241	605	Petition to revive unintentionally abandoned application	
142	1,210	242	605	Utility issue fee (or reissue)	
143	430	243	215	Design issue fee	
144	580	244	290	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of IDS	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))	
149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))	

Other fee (specify) _____

Other fee (specify) _____

SUBTOTAL (3) (\$)0.00

*Reduced by Basic Filing Fee paid

SUBMITTED BY

Typed or Printed Name

James L. Rowland

Signature

Date

9/15/00

Complete (if applicable)

Reg. Number

32,674

Deposit Account User ID

PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Laurent BONAVENTURE et al.)	
)	Group Art Unit 3619
Appln. No.	: Not Yet Assigned)	(Anticipated)
	(Continuation of No. 08/759,416))	
)	Examiner Michael MAR
Filed	: Concurrently Herewith)	(Anticipated)
)	
For	: ROLLER SKATE)	



PRESENTATION OF CLAIMS CORRESPONDING TO PATENT CLAIMS

Assistant Commissioner for Patents
 Washington, D.C. 20231

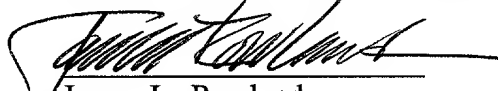
Sir:

Being filed concurrently herewith is a continuation application for which claims are being carried over from the parent application which had been copied from U.S. Patent No. 5,797,610 (GRANDE et al.), issued on August 25, 1998.

Specifically, in the instant continuation application, claims 1-26 correspond, respectively, to claims 1, 2, 4-15, 17-22, 24, 31, 32, 34-36, respectively, of GRANDE et al. Further, claims 1-26 of the instant continuation application correspond to claims 50-75, respectively, of the parent application, i.e., application No. 08/759,416.

Any comments or questions concerning this application can be directed to the undersigned at the telephone or fax number given below.

Respectfully submitted,
 Laurent BONAVENTURE et al.


 James L. Rowland
 Reg. No. 32,674

September 15, 2000
 GREENBLUM & BERNSTEIN, P.L.C.
 1941 Roland Clarke Place
 Reston, VA 20191

(703) 716-1191 (telephone)
 (703) 716-1180 (fax)

005160" 98929960

TITLE OF THE INVENTION

ROLLER SKATE

INVENTORS

**Laurent BONAVENTURE
Jean-Louis DE MARCHI**

009460" 9632960

ROLLER SKATE

CROSS-REFERENCE TO RELATED APPLICATIONS

This is a continuation of application No. 08/759,416, filed on December 5, 1996, the disclosure of which is hereby incorporated by reference thereto in its entirety and the priority of which is claimed under 35 USC 120.

5 This application is also based upon French application No. 95.15016, filed on December 8, 1995, the disclosure of which is hereby incorporated by reference thereto in its entirety and priority of which is claimed under 35 USC 119.

BACKGROUND OF THE INVENTION

1. Field of the Invention

10 The present invention relates to a roller skate, and particularly an in-line roller skate, including a chassis of which one longitudinal lower portion carries the wheels, on the one hand, and a boot formed by an upper overlying a sole adapted to be fixed on an upper plate of the chassis, on the other hand, the internal volume of the upper and/or the sole being in communication with the ambient air at the exterior of the boot, so as to obtain the internal ventilation of the boot, as the skate moves forwardly.

2. Description of Background and Relevant Information

15 The aforementioned type of skate is adapted to the training of ice skaters outside of a skating rink, but also for any athletes eager to maintain or perfect, on

asphalt or concrete surfaces, etc., the techniques used in gliding sports such as trail skiing, cross country skiing, ice skating, etc.

Thus, the practice of this sport includes a driving or propelling phase that occurs by causing the skate to diverge outwardly and by taking a lateral support on the wheels that are thus inclined, in a manner similar to edge setting, then a gliding phase that occurs by repositioning the wheels perpendicularly with respect to the ground.

A boot of this type is known from U.S. Patent No. 5,171,033. This patent describes a boot that has the particularity of being made from a rigid shell including a plurality of ventilation openings leading into the internal volume of the shell. A liner is freely arranged in this shell so that the movements of the foot cause an internal ventilation by means of a cooperation between the pumping action provided by the movement of the liner within the shell and the openings of the shell.

If such a concept is capable of promoting the aeration of the foot, it however maintains all of the rigidity of the boot, because although the shell receives a flexible liner, it constitutes a firm foot-enveloping structure.

Furthermore, the effectiveness of the pumping action exerted by the liner is quite uncertain due to the fact that in a boot of this type, one precisely seeks to avoid any relative foot movement that generates discomfort (friction, blisters) and lack of precision.

One also seeks in such a product a flexible and light boot structure which ensures a good foot retention, a comfort of use, and less fatigue.

U.S. Patent No. 5,401,039 discloses ventilating the internal volume of the shell by supplying ambient air, captured from outside the boot, by holes provided in the lower plane of the sole, via a conduit at the end of which an air inlet is provided, and inside which a turbine affixed to one of the wheels of the skate is positioned to ensure the rotational drive thereof.

This is a complicated design due to the fact that it requires the use of moving elements. In addition, the air is freely introduced in the shell, which provides a diffuse aeration that does take into account that a moving foot has specific perspiration points toward which the ventilation air must preferably be directed.

SUMMARY OF THE INVENTION

An object of the present invention is to remedy the aforementioned drawbacks and to achieve the desired results mentioned hereinabove. Therefore, an object of the present invention is to provide an improved in-line roller skate that especially allows for a good foot ventilation and conciliates foot retention, comfort, and lightness.

To this end, the invention relates to an in-line roller skate including a chassis of which one longitudinal lower portion carries the wheels, on the one hand, and a boot formed by an upper overlying a sole adapted to be fixed on an upper plate of the chassis, on the other hand, the volume of the upper and/or sole being in communication with the outside so as to obtain the internal ventilation thereof by the ambient air, wherein it includes an air passage arrangement interposed between an external air collection zone and the internal volume of the shell, these air passages having a non-deformable volume.

Advantageously, these air passages are constituted by a ventilation chamber having a non-deformable volume provided beneath a plantar support of the boot and communicating with the internal volume of the upper.

BRIEF DESCRIPTION OF THE DRAWINGS

5

The present invention is also related to the characteristics which will become apparent from the following description, and which must be considered separately or according to all of their possible technical combinations.

This description, provided by way of non-limiting examples, will help to better understand how the invention can be embodied, with reference to the annexed drawing, in which:

FIG. 1 is a side elevation view of an in-line roller skate and of an associated boot ventilated according to the invention;

FIG. 2 is a transverse cross-sectional view of the skate according to FIG. 1;

FIG. 3 is an internal detailed view showing the plantar support of the sole;

FIG. 4 is a perspective view of a skate according to FIG. 1 whose boot is detached from the chassis to show the ventilation arrangement of the boot;

FIG. 5 is a perspective view of a skate according to an alternative embodiment of the ventilation arrangement;

20

FIG. 6 is a longitudinal cross-sectional view of a skate according to FIG. 5;

FIG. 6a is a transverse cross-sectional view of the skate according to FIG. 6;

FIG. 7 is a longitudinal cross-sectional view of a skate according to an alternative embodiment of the ventilation arrangement;

FIG. 8 is a longitudinal cross-sectional view of a skate according to an alternative embodiment of the ventilation arrangement;

5 FIG. 8a is a transverse cross-sectional view of a skate according to FIG. 8;

FIG. 9 is a longitudinal cross-sectional view of a skate according to an alternative embodiment of the ventilation arrangement; and

FIG. 9a is a transverse cross-sectional view of a skate according to FIG. 9.

DETAILED DESCRIPTION OF THE INVENTION

10 The in-line roller skate generally designated by reference numeral 1 and shown in FIG. 1 includes a frame/chassis 2 of which one longitudinal lower portion carries the wheels 3, on the one hand, and a shoe/boot 4 formed by an upper in the form of a rigid shell 5 overlying a sole 6 adapted to be fixed on an upper plate 7 of the chassis 2, on the other hand, the internal volume of the shell 5 being in communication with the outside, so as to obtain the internal ventilation of the volume by means of the air supply A, via an air passage arrangement 8.

15 Generally, the passages for air A, interposed between an external collection zone and the internal volume of the shell 5, are constituted by a ventilation chamber 8 provided beneath the external sole 6 defining a plantar support 9 of the boot 4, and in communication with the internal volume of the shell 5.

20 According to the example shown in FIGS. 1-4, the ventilation chamber 8 is demarcated by the lower external plane or surface 6a of the sole 6 of the boot 4 and by the upper plane or surface 7a of the plate 7 of the chassis 2, which cooperates during closure with the plane 6a via a peripheral connecting portion 10

in which at least one zone 11 for collecting air A is provided. This ventilation chamber 8, provided between two rigid portions 6, 7 therefore has a non-deformable volume.

5 The collecting zone 11 here is a front inlet formed by an interruption of the peripheral edge 10 between the front of the plate 7 of the chassis 2 and the sole 6 of the tip of the boot 4. This air inlet could be lateral, or could even be combined with a plurality of front and/or lateral inlets. The advantage is that this air inlet is positioned on a surface of the skate arranged perpendicularly to the direction of displacement, such that the draft generated by the displacement of the skate rushes directly into the ventilation chamber, the air inlet being located at an exterior of the boot in free-flow communication with the ventilation chamber.

10 As shown in FIG. 1, the air inlet opening 11 is configured for producing an increase in the velocity of air entering the inlet opening and being directed to the ventilation chamber 8. As an example, it is seen that the inlet opening is forwardly flared. A forwardmost cross section of the air inlet opening has a greater area than that of a rearward cross section.

15 The communication of the ventilation chamber 8 with the internal volume of the shell 5 is had through holes 12 obtained according to an arrangement selected in the plantar support 9 and, in this example, in the external sole 6. As also shown in FIGS. 2 and 3, the ventilation chamber 8 can be divided by at least one longitudinal rib 13, so as to constitute two air passage nozzles 14, 15 for the collected air A, across from which a plurality of aeration holes 12 are provided.

20 It is also contemplated to provide a larger number of nozzles. A single nozzle is also contemplated.

5 According to another characteristic of the invention, shown in FIG. 1, the bottom 7a of each of the nozzles 14, 15 for the passage of air A includes, opposite each of the aeration holes 12, deflectors 16 adapted to create jumps and swirls of air A in order to increase its flow rate and to promote its forced introduction into the holes 12.

Furthermore, the internal plane 6b of the sole forming the plantar support 9 includes a plurality of longitudinal ribs 17 interrupted by connecting passages 18 therebetween so as to constitute baffle passages, thereby promoting the circulation and distribution of air A beneath the user's foot.

10 This first embodiment of the invention, with the collection of air at the front, has the advantage of providing a much better imperviousness with respect to a construction with holes provided directly beneath the sole or directly on the shell. Moreover, the introduction of air is much better since the air inlet extends directly perpendicularly to the flow of the moving draft.

15 It must be specified that the rear end of the ventilation chamber 8 can include a plug 19 or a closure valve with adjustable output for adjusting the air flow rate. Such a valve can also be provided at the front, in the area of the air inlet.

20 Alternative embodiments based on the principle that has just been described are shown in FIGS. 5-9. It is readily apparent that the alternative embodiments can embody the attributes of the embodiment of FIGS. 1-4, just described, that are not inconsistent with the principle that has just been described in connection with FIGS. 1-4. The principle includes, for example, the provision of the

aforementioned deflectors 16, the baffle passages 18, and the plug or closure valve 19 for modifying the air flow rate of the ventilating air that exits the boot.

Thus, according to FIGS. 5, 6, and 6a, the ventilation chamber 8A is provided within the internal sole of the boot defining a plantar support 9A with double wall 9Aa and 9Ab forming a recessed volume of predetermined thickness and attached within the shell 5A on the internal plane 6Aa of the external sole 6A.

Such a design not only makes it possible to render the plantar support removable, for washing, for example, but it can constitute, as a function of the selected material with which it is composed, an element for absorbing the weight of the skater.

Such a plantar support 9A can be made by blow molding a plastic material, independently of the remainder of the boot, and therefore removable as previously mentioned.

In this case, the inlet 11A for air A is made during the extrusion operation on the plantar support itself, and it communicates with the outside via an associated opening of the upper.

The embodiment of FIG. 7 essentially differs from the previous ones in that the ventilation chamber 8B is demarcated between a plantar support 9B attached within the shell 5B and the internal plane 6Ba of the sole 6B with which it cooperates by providing a predetermined spacing "e" by means of longitudinal vertical ribs 20 extending from the plantar support 9B. The spacing "e" could also be obtained by a peripheral zone adjacent to the plantar support 9B (not shown in the drawing).

In this case, the spacing "e" between the plantar support 9B and the internal plane 6Ba of the sole 6B forming the ventilation chamber 8B is provided by the internal peripheral edge 20 of the plantar support.

5 In the example of FIGS. 8 and 8a, the difference resides in the fact that the spacing "e" between the plantar support 9c and the internal plane 6Ca of the sole 6C of the boot forming the ventilation chamber 8C is provided by vertical longitudinal ribs 21 extending from the internal plane 6Ca of the sole 6C, on top of which the plantar support 9C rests and whose lateral walls form nozzles 22, 23, 24, 25,..., for the passage of air A, across from which a plurality of aeration holes 10 12 are provided.

An inlet 11C for the air A is also provided at the front end of the shell above the sole 6C.

15 Finally, according to the embodiment of FIGS. 9 and 9a, the ventilation chamber 8D is constituted by a recessed sole 6D defining a double bottom obtained during molding of the sole, and whose upper plane constitutes the plantar support 9D.

Likewise, an inlet 11D for the passage of air A is provided at the front, on the sole 6D.

20 Such an embodiment is particularly adapted to a construction of a flexible upper 5D assembled by gluing, in a known manner, to the sole 6D made independently by molding.

The plantar support demarcating the upper plane of the ventilation chambers can be designed in any other way, such as by assembling a plurality of elements, for example.

In summary of the various embodiments of the invention disclosed herein, the invention includes a ventilated sport shoe such as 4 or 4A, which preferably includes an upper shoe portion, such as 4/5, 4A/5A, 5B, 5C, or 5D, defining an interior adapted to receive a foot. The shoe includes a foot bed having a base, such as 6, 6A, 6B, 6C, or 6D, secured to the upper shoe portion, the foot bed defining an upper surface, such as 6b, capable of receiving the foot and the base defining a lower surface, such as 6a, capable of mounting the lower frame 2 thereon. The foot bed defines a ventilation channel, such as 8, 8B, 8C, or 8D, formed within or below the upper surface of the foot bed and at least partially traversing the foot bed from at least one inlet aperture, such as 11, 11A, 11B, 11C, or 11D, defined on an exterior of the lower surface of the base to an outlet aperture, such as 19, defined on the exterior of the lower surface of the base. The apertures provide ambient airflow into and out of the foot bed from the exterior of the base during use, the ventilation channel being in moisture transport communication, via holes 12, for example, with the interior of the upper shoe portion, thereby providing ventilation and moisture transfer from the received foot to the channel and out of the outlet aperture.

As disclosed, the upper shoe portion is configured for ventilation of upper portions of the foot.

The inlet aperture (such as 11, 11A, 11B, 11C, or 11D) is defined by the base (6, 6A, 6B, 6C, or 6D, e.g.) and is longitudinally spaced from the outlet aperture 19 relative to a longitudinal axis of the base. Further, the inlet aperture

is defined adjacent a toe portion of the base and the outlet aperture is defined adjacent a heel portion of the base.

5 The inlet (11, 11A, 11B, 11C, 11D, e.g.) and outlet apertures (19, e.g.) and the ventilation channel (8, 8B, 8C, 8D, e.g.) are configured to provide continuous airflow therebetween for the length of the sport shoe, thereby providing ventilation and moisture transfer for substantially the entire length of the foot.

10 It is contemplated that at least one branch ventilation channel, or a plurality of such branch channels, can be provided to extend from a branch inlet aperture, defined on the exterior of the base between the toe portion and the heel portion, rearwardly to join the ventilation channel.

15 According to a particular embodiment of the invention, the lower surface of the base defines a projection projecting downwardly from the lower surface, the inlet ventilation aperture being defined within the projection. The inlet ventilation aperture is disposed on a forward face of the projection, such that the forward face is oriented towards a toe portion of the base. In this particular embodiment, the inlet ventilation aperture is positioned normal to the freestream airflow through the ventilation channel, thereby drawing airflow through the channel.

20 It is contemplated that the shoe of the invention can include a plurality of channels (14, 15; 22, 23, 24, 25, etc., e.g.) at least partially traversing the upper surface of the foot bed providing airflow into and out of the foot bed for corresponding portions of the foot bed during use. Thereby, the ventilation channels are arranged to ventilate at least a majority of the upper surface of the foot bed. Preferably, the plurality of channels are disposed substantially parallel to a longitudinal axis of the foot bed. Further, it is contemplated that the plurality

of channels are arranged over or within substantially the entire width of the upper surface of the foot bed.

In a particular embodiment, the ventilation channel is to be configured for at least a portion of its length as a groove formed in the upper surface of the base. Note, e.g., the portion of the channels 14, 15 formed by lower surfaces 6a in FIG. 2., e.g., and, in FIG. 8a, note the ribs 21 extending upwardly from the sole 6C.

Further, according to a preferred embodiment, the ventilated sport shoe is adapted for use as an in-line skate shoe, with a lower frame secured to the base and a plurality of longitudinally aligned wheels mounted on the lower frame.

According to another particular embodiment, the ventilation channel 8C (see FIG. 8) is defined in the base 6C and the foot bed further comprises a substrate 9C received within the upper shoe portion between an upper surface of the base and a user's foot, the substrate defining a plurality of moisture transport pathways 12 in fluid communication with the ventilation channel 8C.

Further, the substrate 9C can comprise a last board received on the upper surface of the base and joining the upper shoe portion to the base. That is, the substrate, or plantar support, 9C is positioned on the top, i.e., on the upper surface, of the sole 6C (or base). Still further, the last board defines a plurality of apertures 12 vertically extending therethrough at least partially aligned and in fluid communication with the ventilation channel (8C; 22, 23, 24, 25, etc.). The substrate can further include an insole received within the interior of the upper shoe portion over the last board, with the insole defining a plurality of apertures vertically extending therethrough.

5 In further summary of the various embodiments disclosed herein, the invention includes a ventilated sport shoe such as 4 or 4A, which preferably includes an upper shoe portion, such as 4/5, 4A/5A, 5B, 5C, or 5D, defining an interior adapted to surround a user's foot. The shoe includes a foot bed having a base, such as 6, 6A, 6B, 6C, or 6D, secured to the upper shoe portion. The foot bed has an upper surface, such as 6b, that supports the user's foot, and the base has an exterior surface, wherein the base defines inlet ventilation apertures, such as 11, 11A, 11B, 11C, or 11D, and outlet ventilation apertures, such as 19, on the exterior surface of the base. Further, the foot bed defines a channel, such as 8, 8B, 8C, or 8D, extending from the inlet to the outlet apertures and at least partially along the upper surface of the foot bed to provide ambient airflow into and out of the foot bed from the exterior of the base during use. Further, moisture transport means, such as that provided by the inlet 11, air channel 8, apertures 12, etc., are provided for placing the channel in moisture transport communication with the interior of the upper shoe portion, such that motion of the skater during use causes airflow from the inlet aperture through the channel to the outlet aperture(s) to draw moisture from the interior of the skate. Lastly, a frame 2 is provided for mounting the plurality of wheels 3 secured to the exterior of the base.

20 In further summary of the various embodiments of the invention disclosed herein, the ventilated sport shoe includes an upper shoe portion (such as 4/5, 4A/5A, 5B, 5C, or 5D) which defines an interior adapted to receive a foot, as well as a foot bed including a base (such as 6, 6A, 6B, 6C, or 6D) secured to the upper shoe portion, the foot bed defining an upper surface (6b, e.g.) capable of receiving the foot and the base defining a lower surface (6a, e.g.) capable of mounting a lower frame (such as 2) thereon. Further, the foot bed defines a ventilation channel (such as 8, 8B, 8C, or 8D) formed within or below the upper surface of

the foot bed and at least partially traversing the foot bed from an inlet aperture (such as 11, 11A, 11B, 11C, or 11D) defined on an exterior of the base to an outlet aperture (such as 19) defined on the exterior of the base, the apertures providing airflow into and out of the foot bed during use, wherein the ventilation channel is in moisture transport communication (via holes 12, e.g.) with the interior of the upper shoe portion, thereby providing a ventilation and moisture transfer from the received foot to the channel and out the outlet aperture, wherein the lower surface of the base defines a projection projecting downwardly from the lower surface, the inlet ventilation aperture being defined within the projection. Preferably, the inlet ventilation aperture is disposed on a forward face of the projection, such that the forward face is oriented towards a toe portion of the base. The inlet ventilation aperture is preferably positioned normal to the freestream airflow through the ventilation channel, thereby drawing airflow through the channel.

According to a summary of a particular preferred embodiment of the invention, the ventilated sport shoe of the invention includes a base having an upper shoe portion (such as 4/5, 4A/5A, 5B, 5C, 5D) adapted to receive a foot and a lower load-bearing surface (such as 2). The ventilated sport shoe includes a base (such as 6, 6A, 6B, 6C, or 6D) adapted to receive the upper shoe portion, the base defining an upper surface (such as 6b) capable of receiving the foot, and a lower surface (such as 6a) capable of mounting the load-bearing surface. The base defines a ventilation channel (such as 8, 8B, 8C, or 8D) at least partially traversing the upper surface of the base from an inlet aperture to an outlet aperture, the inlet and outlet apertures being defined on an exterior of the base to provide ambient airflow into and out of the base from the exterior of the base during use. Further, the shoe includes a substrate (such as 9C) received within the upper shoe portion on the upper surface of the base and includes a plurality of

moisture transport pathways (12, e.g.) therethrough wherein air flow can flow from the aperture, through the ventilation channel, and out the outlet aperture (such as 19), drawing moisture from the foot through the moisture transport pathways.

WHAT IS CLAIMED IS:

1. A ventilated sport shoe including a lower frame portion mounting a bearing member, wherein the ventilated sport shoe comprises:

an upper shoe portion defining an interior adapted to receive a foot;

and

a foot bed including a base secured to the upper shoe portion, the foot bed defining an upper surface capable of receiving the foot and the base defining a lower surface capable of mounting the lower frame thereon, the foot bed defining a ventilation channel formed within or below the upper surface of the foot bed and at least partially traversing the foot bed from an inlet aperture defined on an exterior of the lower surface of the base to an outlet aperture defined on the exterior of the lower surface of the base, the apertures providing ambient airflow into and out of the foot bed from the exterior of the base during use, wherein the ventilation channel is in moisture transport communication with the interior of the upper shoe portion, thereby providing ventilation and moisture transfer from the received foot to the channel and out of the outlet aperture.

2. The ventilated sport shoe of claim 1, wherein the upper shoe portion is configured for ventilation of upper portions of the foot.

3. The ventilated sport shoe of claim 1, wherein the inlet aperture is defined by the base and is longitudinally spaced from the outlet aperture relative to a longitudinal axis of the base.

4. The ventilated sport shoe of claim 3, wherein the inlet aperture is defined adjacent a toe portion of the base and the outlet aperture is defined adjacent a heel portion of the base.

5. The ventilated sport shoe of claim 4, wherein the inlet and outlet apertures and the ventilation channel are configured to provide continuous airflow therebetween for the length of the sport shoe, thereby providing ventilation and moisture transfer for substantially the entire length of the foot.

5 6. The ventilated sport shoe of claim 4, further comprising at least one branch ventilation channel extending from a branch inlet aperture, defined on the exterior of the base between the toe portion and the heel portion, rearwardly to join the ventilation channel.

10 7. The ventilated sport shoe of claim 6, further comprising a plurality of branch ventilation channels.

15 8. The ventilated sport shoe of claim 1, wherein the lower surface of the base defines a projection projecting downwardly from the lower surface, the inlet ventilation aperture being defined within the projection.

 9. The ventilated sport shoe of claim 8, wherein the inlet ventilation aperture is disposed on a forward face of the projection, such that the forward face is oriented towards a toe portion of the base.

 10. The ventilated sport shoe of claim 9, wherein the inlet ventilation aperture is positioned normal to the freestream airflow through the ventilation channel, thereby drawing airflow through the channel.

20 11. The ventilated sport shoe of claim 1, wherein the ventilation channel comprises a plurality of channels at least partially traversing the upper surface of

the foot bed providing airflow into and out of the foot bed for corresponding portions of the foot bed during use.

12. The ventilated sport shoe of claim 11, wherein the plurality of ventilation channels are arranged to ventilate at least a majority of the upper surface of the foot bed.

13. The ventilated sport shoe of claim 11, wherein the plurality of channels are disposed substantially parallel to a longitudinal axis of the foot bed.

14. The ventilated sport shoe of claim 11, wherein the plurality of channels are arranged over or within substantially the entire width of the upper surface of the foot bed.

15. The ventilated sport shoe of claim 1, wherein the ventilation channel is configured for at least a portion of its length as a groove formed in the upper surface of the base.

16. The ventilated sport shoe of claim 1, wherein the ventilated sport shoe is adapted for use as an in-line skate shoe, further comprising a lower frame secured to the base and a plurality of longitudinally aligned wheels mounted on the lower frame.

17. The ventilated sport shoe of claim 1, wherein the ventilation channel is defined in the base and the foot bed further comprises a substrate received within the upper shoe portion between an upper surface of the base and a user's foot, the substrate defining a plurality of moisture transport pathways in fluid communication with the ventilation channel.

18. The ventilated sport shoe of claim 17, wherein the substrate comprises a last board received on the upper surface of the base and joining the upper shoe portion to the base.

19. The ventilated sport shoe of claim 18, wherein the last board defines a plurality of apertures vertically extending therethrough at least partially aligned and in fluid communication with the ventilation channel.

20. The ventilated sport shoe of claim 18, wherein the substrate further comprises an insole received within the interior of the upper shoe portion over the last board.

21. The ventilated sport shoe of claim 20, wherein the insole defines a plurality of apertures vertically extending therethrough.

22. An in-line skate including a plurality of wheels, comprising:
an upper shoe portion defining an interior adapted to surround a user's foot;

a foot bed including a base secured to the upper shoe portion, the foot bed having an upper surface that supports the user's foot and the base having an exterior surface, wherein the base defines inlet and outlet ventilation apertures on the exterior surface of the base, and the foot bed defines a channel extending from the inlet to the outlet aperture and at least partially along the upper surface of the foot bed to provide ambient airflow into and out of the foot bed from the exterior of the base during use;

moisture transport means for placing the channel in moisture transport communication with the interior of the upper shoe portion, such that

motion of the skater during use causes airflow from the inlet aperture through the channel to the outlet aperture to draw moisture from the interior of the skate; and
a frame for mounting the plurality of wheels secured to the exterior of the base.

5 23. A ventilated sport shoe base having an upper shoe portion adapted to receive a foot and a lower load-bearing surface, wherein the ventilated sport shoe comprises:

10 a base adapted to receive the upper shoe portion, the base defining an upper surface capable of receiving the foot and a lower surface capable of mounting the load-bearing surface, the base defining a ventilation channel at least partially traversing the upper surface of the base from an inlet aperture to an outlet aperture, the inlet and outlet apertures being defined on an exterior of the base to provide ambient airflow into and out of the base from the exterior of the base during use; and

15 a substrate received within the upper shoe portion on the upper surface of the base and including a plurality of moisture transport pathways therethrough wherein air flow can flow from the aperture, through the ventilation channel, and out the outlet aperture, drawing moisture from the foot through the moisture transport pathways.

20 24. A ventilated sport shoe including a lower frame portion mounting a bearing member, wherein the ventilated sport shoe comprises:

 an upper shoe portion defining an interior adapted to receive a foot;
and

25 a foot bed including a base secured to the upper shoe portion, the foot bed defining an upper surface capable of receiving the foot and the base defining a lower surface capable of mounting the lower frame thereon, the foot

bed defining a ventilation channel formed within or below the upper surface of the foot bed and at least partially traversing the foot bed from an inlet aperture defined on an exterior of the base to an outlet aperture defined on the exterior of the base, the apertures providing airflow into and out of the foot bed during use, wherein the ventilation channel is in moisture transport communication with the interior of the upper shoe portion, thereby providing a ventilation and moisture transfer from the received foot to the channel and out the outlet aperture, wherein the lower surface of the base defines a projection projecting downwardly from the lower surface, the inlet ventilation aperture being defined within the projection.

25. The ventilated sport shoe of claim 24, wherein the inlet ventilation aperture is disposed on a forward face of the projection, such that the forward face is oriented towards a toe portion of the base.

26. The ventilated sport shoe of claim 25, wherein the inlet ventilation aperture is positioned normal to the freestream airflow through the ventilation channel, thereby drawing airflow through the channel.

27. A ventilated sport boot including a lower frame portion mounting a bearing member, the ventilated sport boot comprising:

a boot comprising:

an upper defining an interior adapted to receive a foot;

and

a base secured to the upper, the base defining an upper surface configured for supporting the foot, the base defining at least one ventilation channel formed within or below the upper surface of the base and at least partially traversing the base from an inlet aperture defined on an exterior of a lower surface of the base to an outlet aperture defined on the exterior of the base, the apertures

providing ambient airflow into and out of the base from the exterior of the base during use, wherein the at least one ventilation channel is in communication with the interior of the upper of the boot, thereby providing ventilation of the received foot to the at least one ventilation channel and out of the outlet aperture.

5 28. A ventilated sport boot according to claim 27, wherein the base constitutes an external sole of the boot.

29. An in-line skate including a plurality of wheels, comprising:

10 a boot including an upper, the upper including an interior adapted to surround a user's foot, the boot further comprising a base secured to the upper of the boot, the base having an upper surface that supports the user's foot and the base having an exterior surface, the base defining inlet and outlet ventilation apertures on the exterior surface of the base, the base defining a channel extending from the inlet aperture to the outlet aperture and at least partially along the upper surface of the base to provide ambient airflow into and out of the base from the exterior of the base during use;

15 a structural arrangement placing the channel in air flow communication with the interior of the upper of the boot, such that motion of a user of the skater causes airflow from the inlet aperture through the channel to the outlet aperture to draw air from the interior of the upper of the boot of the skate; and

20 a frame and a plurality of wheels mounted to the frame, the frame being secured to the exterior surface of the base.

25 30. A ventilated sport boot base having an upper boot portion adapted to receive a foot and a lower load-bearing surface, wherein the ventilated sport boot comprises:

5 a base adapted to receive the upper boot portion, the base defining an upper surface capable of receiving the foot and a lower surface capable of mounting the load-bearing surface, the base defining a ventilation channel at least partially traversing the upper surface of the base from an inlet aperture to an outlet aperture, the inlet and outlet apertures being defined on an exterior of the base to provide ambient airflow into and out of the base from the exterior of the base during use; and

10 a plantar support positioned within the upper boot portion on the upper surface of the base and including a plurality of pathways therethrough wherein air can flow from the aperture, through the ventilation channel, and out the outlet aperture, drawing air from the foot through the pathways.

31. A ventilated sport boot including a lower frame portion mounting a bearing member, wherein the ventilated sport boot comprises:

15 an upper boot portion defining an interior adapted to receive a foot; and

20 a base secured to the upper boot portion, the base defining an upper surface capable of receiving the foot, the base defining a lower surface capable of mounting the lower frame thereon, the base defining a ventilation channel formed within or below the upper surface of the base and at least partially traversing the base from an inlet aperture defined on an exterior of the base to an outlet aperture defined on the exterior of the base, the apertures providing airflow into and out of the boot during use, the ventilation channel being in airflow transport communication with the interior of the upper boot portion, thereby providing a ventilation and air transfer from the received foot to the channel and out the outlet aperture, wherein the lower surface of the base defines a projection projecting downwardly from the lower surface, the inlet ventilation aperture being defined within the projection.

25

ABSTRACT OF THE DISCLOSURE

5 An in-line roller skate including a chassis of which one longitudinal lower portion carries the wheels, on the one hand, and a boot formed by a shell overlying a sole adapted to be fixed on an upper plate of the chassis, on the other hand, the volume of the upper being in communication with the outside so as to obtain the internal ventilation thereof by an air supply, wherein it includes air passages interposed between an external collecting zone and the internal volume of the shell, these air passages being constituted by a ventilation chamber provided beneath an internal plantar support of the boot and communicating with the internal volume of the shell.

FIG. 1

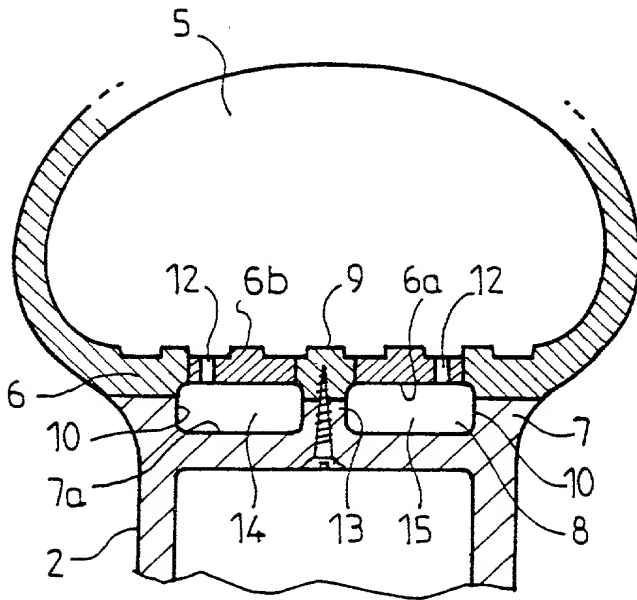
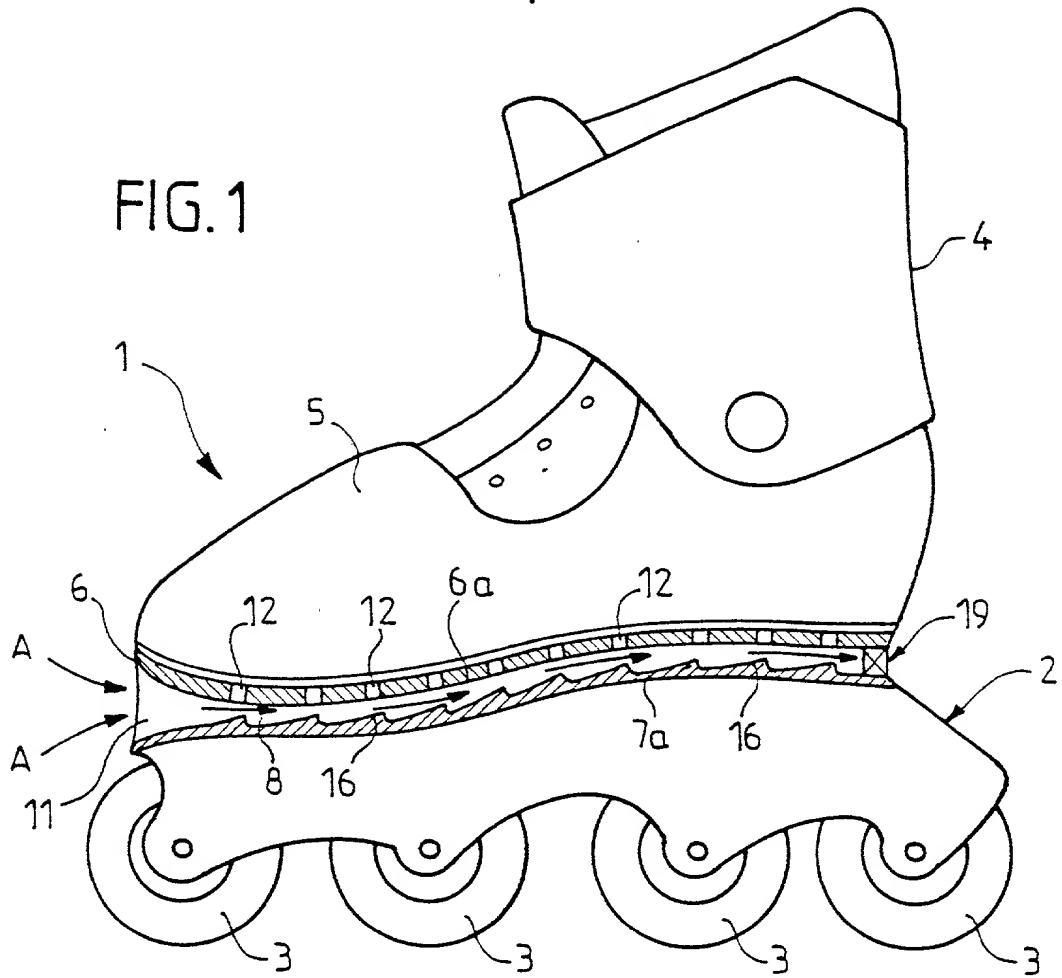


FIG. 2

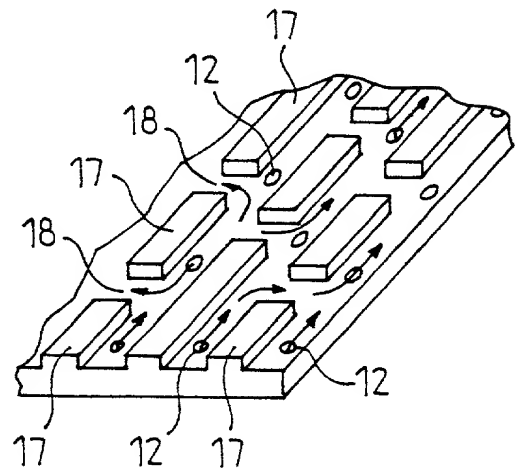


FIG. 3

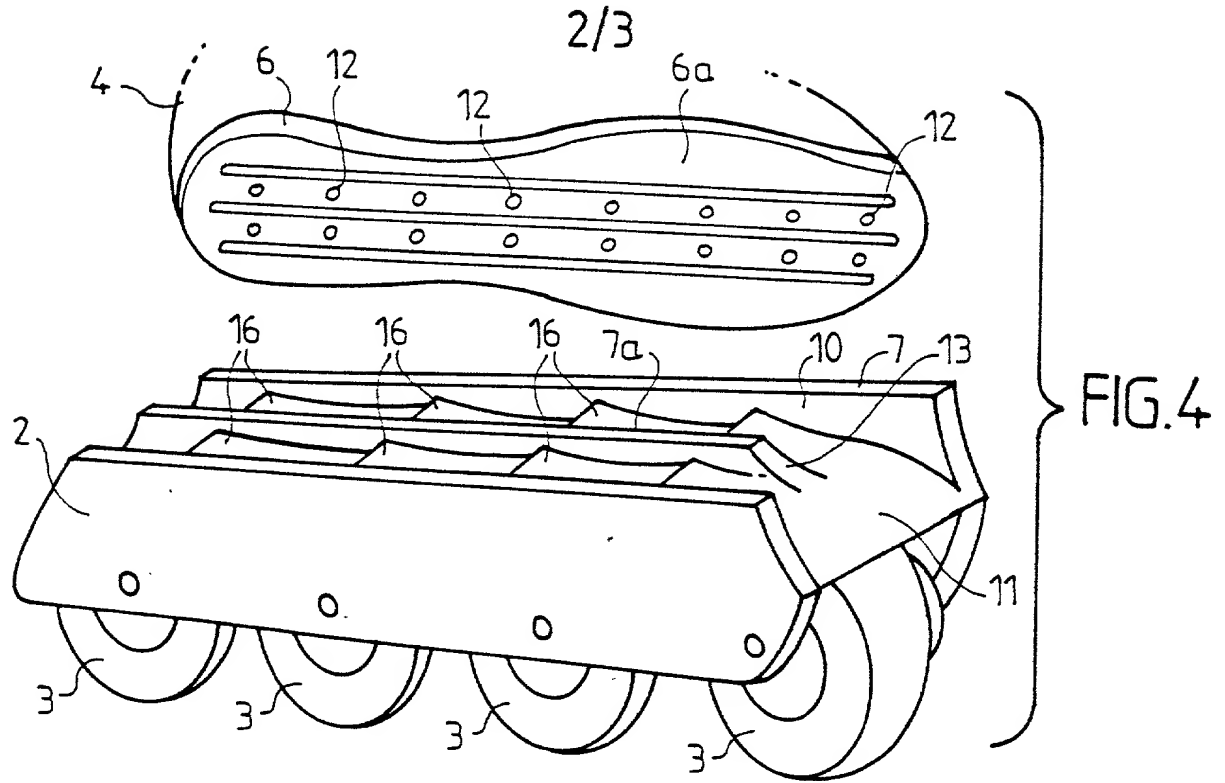


FIG. 4

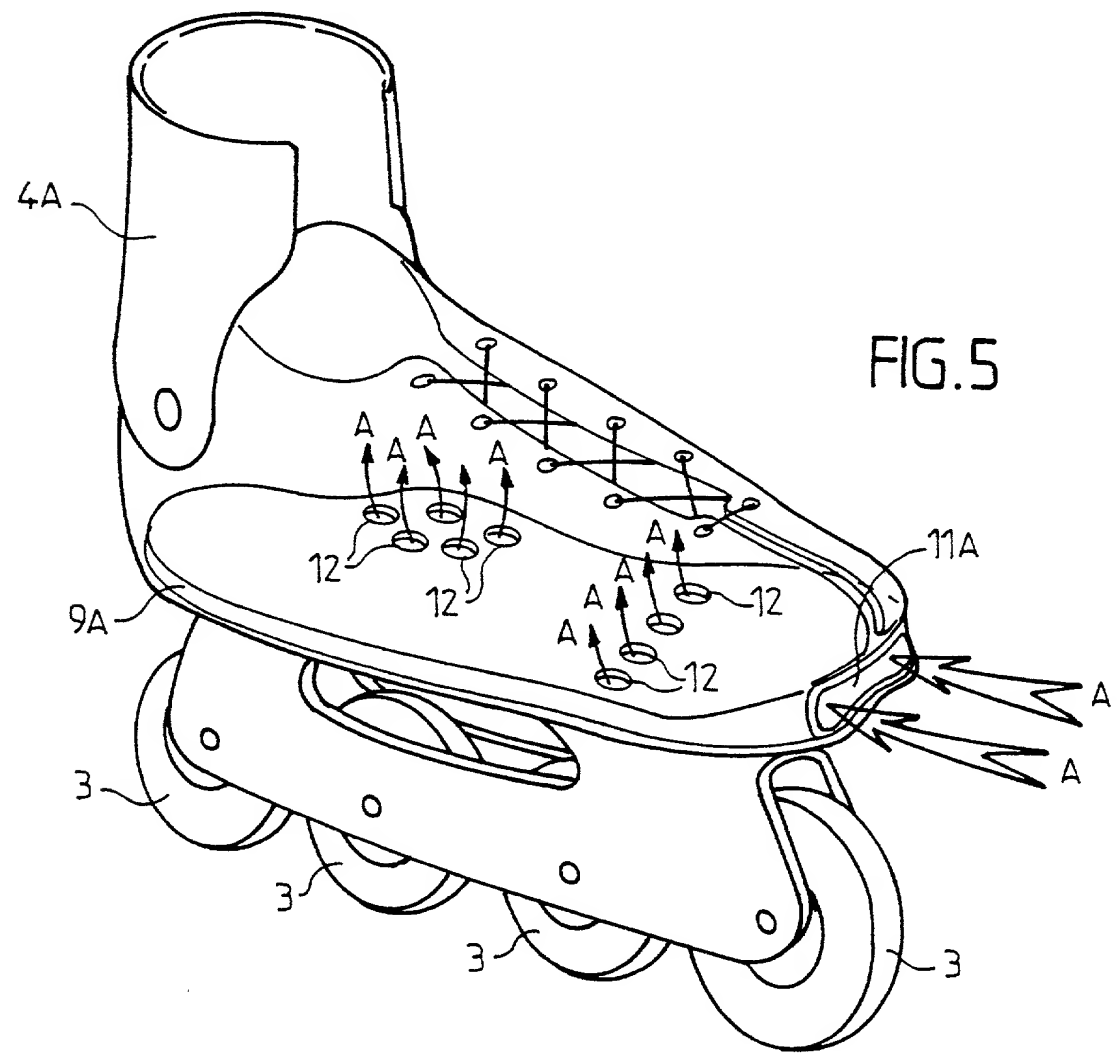


FIG. 5

FIG. 6

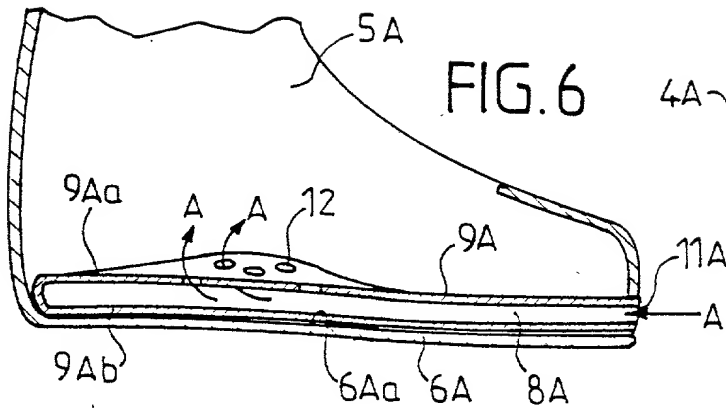


FIG. 6bis

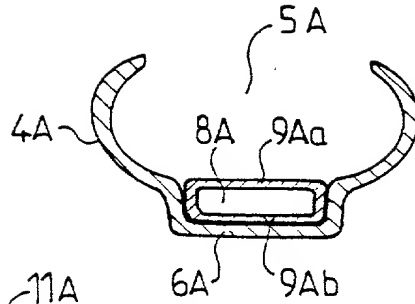


FIG. 7

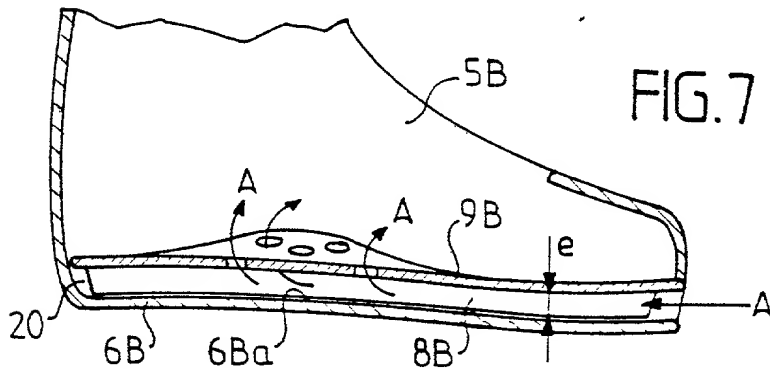


FIG. 8

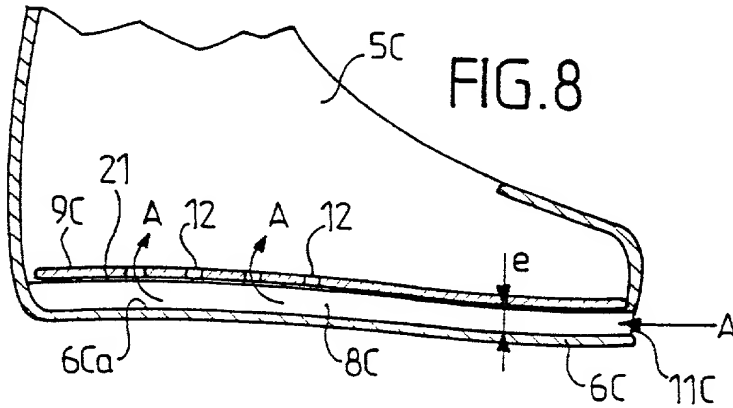


FIG. 8bis

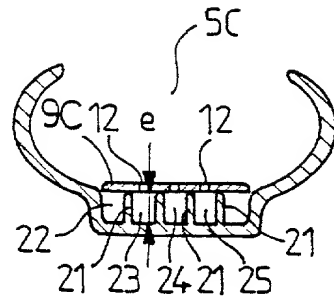


FIG. 9

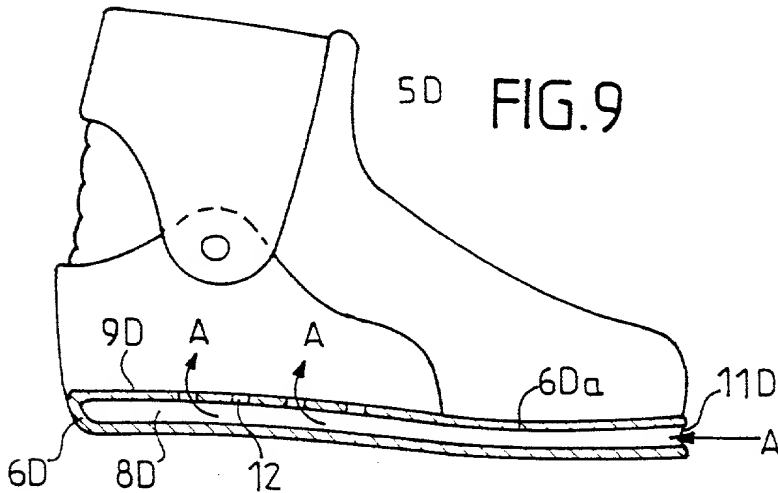
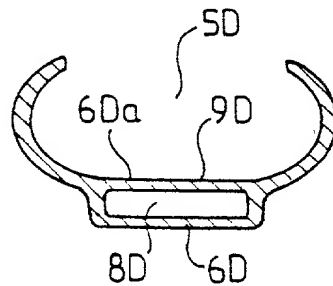


FIG. 9bis



Declaration and Power of Attorney For Patent Application Declaration Pour Demandes de Brevets Avec Pouvoirs

French Language Declaration

En tant qu'inventeur nommé ci-après, Je déclare par le présent acte que:

Mon nom, mon domicile, mon adresse postale, ma nationalité sont ceux qui figurent ci-après.

Je déclare que je crois être l'inventeur original, premier et unique (si un seul nom figure sur le présent acte) ou un des co-inventeurs, originaux et premiers (si plusieurs noms figurent sur le présent acte) du sujet revendiqué et pour lequel un brevet est demandé sur la base de l'invention intitulée:

PATIN A ROUES

dont la description

(cocher la case correspondante)

☒ est annexée au présent acte.

☐ a été déposée _____

Numéro de série de la demande _____

et modifiée le _____ (si approprié)

Je déclare par le présent acte avoir examiné et compris le contenu de la description identifiée ci-dessus, revendications y compris, et le cas échéant telle que modifiée par l'amendement cité plus haut.

Je reconnais le devoir de divulguer l'information qui est en rapport avec l'examen de cette demande selon Titre 37 du Code des Règlements Fédéraux §1.56 (a).

Je revendique par le présent acte le bénéfice de priorité étrangère selon Titre 35, du Code des Etats-Unis, §119 de toute demande de brevet ou d'attestation d'inventeur énumérée ci-après, et j'ai identifié également ci-après toute demande étrangère de brevet ou d'attestation d'inventeur ayant une date de dépôt antérieure à celle de la demande pour laquelle la priorité est revendiquée.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ROLLER SKATE

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on _____ as

Application Serial No. _____

and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

French Language Declaration

Prior foreign applications

Priority claimed
Droit de priorité
revendiqué

Demande(s) de brevet antérieure(s) dans un autre pays:

95.15016 (Number) (Numéro)	FRANCE (Country) (Pays)	8 December 1995 (Day/Month/Year Filed) (Jour/Mois/Année de dépôt)	<input checked="" type="checkbox"/> Yes Oui	<input type="checkbox"/> No Non
_____ (Number) (Numéro)	_____ (Country) (Pays)	_____ (Day/Month/Year Filed) (Jour/Mois/Année de dépôt)	<input type="checkbox"/> Yes Oui	<input type="checkbox"/> No Non
_____ (Number) (Numéro)	_____ (Country) (Pays)	_____ (Day/Month/Year Filed) (Jour/Mois/Année de dépôt)	<input type="checkbox"/> Yes Oui	<input type="checkbox"/> No Non

Je revendique par le présent acte, le bénéfice selon Titre 35 du Code des Etats-Unis, §120 de toute(s) demande(s) américaine(s) énumérée(s) ci-après et, dans la mesure où le sujet de chacune des revendications de cette demande n'est pas divulgué dans la demande américaine antérieure, de la façon définie par le premier paragraphe de Titre 35 du Code des Etats-Unis, §112, je reconnais le devoir de divulguer l'information pertinente selon Titre 37 du Code des Règlements Fédéraux, §1.56(a), toute information qui se présente entre la date de dépôt de la demande antérieure et la date de dépôt de la demande, soit nationale, soit internationale PCT.

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)
(No. de Demande)

(Filing Date)
(Date de Dépôt)

(Etat)
(brevetée, pendante
abandonné)

(Status)
(patented, pending
abandoned)

(Application Serial No.)
(No. de Demande)

(Filing Date)
(Date de Dépôt)

(Etat)
(brevetée, pendante
abandonnée)

(Status)
(patented, pending
abandoned)

Je déclare par le présent acte que toutes mes déclarations, à ma connaissance, sont vraies et que toutes les déclarations faites à partir de renseignements ou de suppositions, sont tenues pour être vraies; de plus, toutes ces déclarations ont été faites en sachant que de fausses déclarations volontaires ou autres actes de même nature sont sanctionnées par une amende ou un emprisonnement, ou les deux, selon la Section 1001, du Titre 18 de Code des Etats-Unis et que de telles déclarations délibérément fausses peuvent compromettre la validité de la demande ou du brevet délivré.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

"Le(s) soussigné(s) autorise(nt) par la présente le ou les avocat(s) américain(s) ou le(s) mandataire(s) ci-dessus désigné(s) à accepter et à suivre les instructions de son conseil en brevet étranger concernant toute démarche nécessaire à effectuer auprès de l'Office américain des Brevets et des Marques concernant cette demande, sans communication directe entre le(s) avocat(s) américain(s) ou le(s) mandataire(s) et le(s) soussigné(s). Dans l'hypothèse d'un changement dans les personnes donneurs d'instructions, le(s) avocat(s) américain(s) ou le(s) mandataire(s) nommé(s) par la présente sera (ont) informé(s) par le(s) soussigné(s)."

The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from his foreign patent agent as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney or agent named herein will be so notified by the undersigned.

Page 2 of 3

French Language Declaration

POUVOIR: En tant qu'inventeur, je désigne l'(les) avocat(s) et/ou l'(les) agent(s) suivant(s) pour poursuivre la procédure de cette demande et traiter toute affaire la concernant auprès du Bureau des Brevets et des Marques:

Neil F. Greenblum	Reg. No. 28,394
Bruce H. Bernstein	Reg. No. 29,027
Roger P. Glass	Reg. No. 30,841
James L. Rowland	Reg. No. 32,674
Arnold Turk	Reg. No. 33,094

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Adresser toute correspondance à:

Send correspondence to:

GREENBLUM & BERNSTEIN, P.L.C.

1041 ROLAND CLARKE PLACE
RESTON, VA 20191
(703) 716-1191

Adresser toute communication téléphonique à:

Direct Telephone Calls to: (name and telephone number)

(Nom) (Numéro de téléphone)

Neil F. Greenblum
Bruce H. Bernstein
Roger P. Glass
James L. Rowland
Arnold Turk

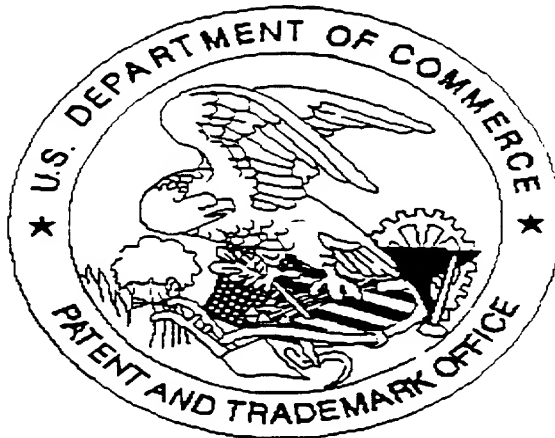
(703) 716-1191

Nom complet du seul ou premier inventeur Laurent BONAVENTURE Signature de l'inventeur Date X LAURENT BONAVENTURE 5/12/1996 Domicile Cran-Gevrier, FRANCE Nationalité FRANCE Adresse Postale 4, rue des Lilas 74960 Cran-Gevrier, FRANCE	Full name of sole or first inventor Laurent BONAVENTURE Inventor's signature Date X LAURENT BONAVENTURE 5/12/1996 Residence Cran-Gevrier, FRANCE Citizenship FRANCE Post Office Address 4, rue des Lilas 74960 Cran-Gevrier, FRANCE
Nom complet du second co-inventeur, le cas échéant Jean-Louis DEMARCHI Signature de l'inventeur Date X Jean Louis Demarchi 5/12/96 Domicile Saint-Jorioz, FRANCE Nationalité FRANCE Adresse Postale Les Vignes des Perris DUINGT 74410 Saint-Jorioz, FRANCE	Full name of second joint inventor, if any Jean-Louis DEMARCHI Second inventor's signature Date X Jean Louis Demarchi 5/12/96 Residence Saint-Jorioz, FRANCE Citizenship FRANCE Post Office Address Les Vignes des Perris DUINGT 74410 Saint-Jorioz, FRANCE

(Fournir les mêmes renseignements et la signature de tout co-inventeur supplémentaire.)

(Supply similar information and signature for third and subsequent joint inventors.)

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